PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or a	gent's file reference O/PCT	FOR FURTHER A	ACTION	See Form PCT/IPEA/416		
International application No.		International filing da	ate (day/month/year)	Priority date (day/month/year)		
PCT/FR2	2004/002098	06.08.200	4	08.08.2003		
International Pa	tent Classification (IPC) o	national classification and	IPC			
C04B22	C04B22/06					
Applicant CHRYSO S.A.S.						
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This R	EPORT consists of a total	of 5	sheets, including	this cover sheet.		
3. This re	eport is also accompanied	by ANNEXES, comprising				
a. D	(sent to the applican	and to the International Bi	ureau) a total of 8	sheets, as follows:		
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
ь. [7	onal Bureau only) a total of	(indicate type and number	r of electronic carrier(s))		
	_			, containing a sequence listing and/or tables		
		puter readable form only, a ninistrative Instructions).	as indicated in the Supple	mental Box Relating to Sequence Listing (see		
4. This re	eport contains indications	relating to the following iter	ms:			
	Box No. I Basis	of the report				
	Box No. II Priorit	y				
	Box No. III Non-e	stablishment of opinion with	h regard to novelty, inventi	ive step and industrial applicability		
	Box No. IV Lack of	f unity of invention				
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI Certain documents cited					
	Box No. VII Certai	defects in the international	l application			
	Box No. VIII Certai	observations on the interna	ational application			
Date of submission of the demand			Date of completion of thi	s report		
Name and mailing address of the IPEA/EP			Authorized officer			
Facsimile No.			Telephone No.			

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/FR2004/002098

Вох	No. I	Basis of the report				
1.		regard to the language, this report is based on the internationated under this item.	al application in the language in	which it was filed, unless otherwise		
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3)				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description: pages 4-21 as originally filed/furnished					
		pages* 1-3	received by this Authority on	13.05.2005 with telefax		
		pages*	received by this Authority on			
	\boxtimes	the claims:				
		nos.		as originally filed/furnished		
		nos.*		r with any statement) under Article 19		
		nos.* 1-18		13.05.2005 with		
		nos.*	received by this Authority on			
	X	the drawings:				
				as originally filed/furnished		
		sheets 1/1 sheets*	-	as originally incortainshed		
		sheets*	·			
	\Box			***		
		a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence L	isung.		
3.	ш	The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as file.				
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
	any table(s) related to sequence listing (specify):					
*	If item 4 applies, some or all of those sheets may be marked "superseded."					

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International application No.
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			d statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; and explanations supporting such statement		
1. 5	Statement				
	Novelty (N)		Claims	1-16	YES
			Claims	17, 18	NO
	Inventive st	ep (IS)	Claims	1-16	YES
			Claims		NO
	Industrial a	oplicability (IA)	Claims	1-18	YES
			Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - Reference is made to the following document:
 D1: WO 91/15435 A (AALBORG PORTLAND A/S) 17 October
 1991.
 - The present application fails to meet the requirements of PCT Article 33(1), since the subject matter of claims 17 and 18 does not comply with the criterion of novelty as defined by PCT Article 33(2).

D1 describes (the references between parentheses apply to said document):

a method wherein a manganese salt in hydroxide form (page 3, lines 13 to 19) in combination with an organic salt such as a naphthalene sulphonate (page 3, lines 20 to 27) is used in a concentrated solution or a powder to reduce the chromium VI content of the cement. Given that naphthalene sulphonate comes within the definition of a water-soluble stabilising agent and that the final concrete has a residual chromium VI content less than 2 ppm, the subject matter of claims 17 and 18 is not novel, despite the physical form in which the reducing agent is added to the cement or to the fresh mixture.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

3. D1, which is considered to be the prior art closest to the subject matter of claims 1, 15 and 16, describes using a concentrated solution of a manganese salt in combination with a naphthalene sulphonate to reduce the chromium VI content of the cement to a value less than 2 ppm.

Consequently, the subject matter of claims 1, 15 and 16 differs from D1 in that D1 does not describe adjusting to a pH greater than 2 to obtain an aqueous solution. The subject matter of claims 1, 15 and 16 is therefore novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can be considered to be that of preparing a chromium VI reducing agent in a form that is stable in use and, in particular, less corrosive.

The solution to this problem, as proposed in claims 1, 15 and 16 of the present application, is considered to involve an inventive step (PCT Article 33(3)) for the following reasons:

In the treatment of tin, iron and/or manganese salts using an alkaline agent, aqueous suspensions may be prepared; such suspensions, when stabilised by means of a stabilising agent, form reducing agents that are stable, easy to use and less corrosive in comparison to concentrated solutions.

Claims 2 to 14 are dependent on claim 1 and thus also comply, as such, with the PCT requirements of novelty and inventive step.

International application No.

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Supplemental Box	
In case the space in any of the preceding boxes is not sufficient. Continuation of: Box I	
The amendments added by the letter of 13/	05/2005 meet the
requirements of Article 34(2)(b). Consequ	ently, the
amended claims form the basis for the pre	sent report.